Claims

- [c1] What is claimed is:
 - 1.An aperture plate for optical lithographic systems, comprising:

an opaque plate having thereon a central pole aperture; and

a set of four sector apertures having substantially the same opening angel θ , wherein said sector apertures radiating from a center point of said pole aperture communicate with said central pole aperture; wherein said aperture plate when in combination with conventional light and an annular light can provide Bow-Pole and Quasar illumination.

- [c2] 2.The aperture plate for optical lithographic systems according to claim 1 wherein dimension of said central pole aperture is determined by a sigma σ_{inner} value.
- [c3] 3.The aperture plate for optical lithographic systems according to claim 1 wherein dimension of each of said sector apertures is determined by a sigma σ_{outer} value.
- [c4] 4. The aperture plate for optical lithographic systems according to claim 1 wherein said opening angel θ is about